

ABSTRACT

An object of the present invention is to acquire optimum recording characteristics of an optical recoding medium having multiple data layers, with respect to each of the multiple data layers without increasing learning time required for learning a relation between aberration amount and optimum recording compensation with respect to each of the multiple data layers. The present invention includes a wavefront converter which is driven in such a manner as to reduce the aberration amount detected by an aberration detector. An output controller holds learned data as to the relation between the driving amount of the wavefront converter and the output of a light source, and controls the output of the light source based on the driving amount of the wavefront converter and the learned data.

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~~The present invention relates to an optical head device, an optical recording device, and an optical recording method, and an~~ An object of the present invention is to ~~enable to~~ acquire optimum recording characteristics of an optical recoding medium having multiple data layers, with respect to each of the multiple data layers without increasing learning time required for learning a relation between aberration amount and optimum recording compensation with respect to each of the multiple data layers. ~~To accomplish this object, the optical head device, the optical recording device, and the optical recording method of the present invention are constructed such that the~~ The present invention includes a wavefront ~~converting means 4~~ converter which is driven in such a manner as to reduce the aberration amount detected by ~~the~~ an aberration ~~detecting means 12~~ detector. ~~The~~ An output ~~controlling means 13~~ controller holds learned data as to the relation between the driving amount of the wavefront ~~converting means 4~~ converter and the output of ~~the~~ a light source \dagger , and controls the output of the light source \dagger based on the driving amount of the wavefront ~~converting means 4~~ converter and the learned data.